

BYPASSING PROTOCOL CHECKSUM COMPUTATIONS IN COMMUNICATIONS ACROSS A RELIABLE NETWORK LINK

ABSTRACT

One embodiment of the present invention provides a system for bypassing use of a protocol checksum during communications across a reliable network link. The system operates by configuring a communication system to bypass use of the checksum during communications across the reliable network link. When the system subsequently receives an outbound packet to be transmitted to a destination across the reliable network link, the system sends the outbound packet to the destination without computing the checksum for the outbound packet. In one embodiment of the present invention, upon receiving an inbound packet from a source across the reliable network link, the system accepts the inbound packet without re-computing the checksum, wherein re-computation of the checksum is required by the communication protocol to verify that the inbound packet was received without errors.